

ClearPath Connection

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A quarterly newsletter for Unisys ClearPath customers

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ClearPath Development Goes Into the Cloud

By Karl Brandt, Vice President and General Manager, ClearPath Sales and Solutions



As cloud computing evolves from an industry buzzword to a viable, real-world concept, Unisys has developed a comprehensive strategy to incorporate cloud into the overall corporate fabric – helping our customers reach new levels of flexibility and economies. While most cloud strategies cater to commodity-class environments, ours focuses on delivering enterprise-class functionality – an element that is already evident in the ClearPath space.

The ClearPath product strategy will incorporate more cloud-based capabilities over the coming months, but it has already shown considerable progress in two primary areas. The first, which has been in production for seven years, is Unisys Logistics Management System, a solution responsible for more than 35 percent of airline cargo management worldwide.

The second is the recently announced ClearPath Cloud: Development and Test Solution, the first in a series of Unisys managed cloud offerings created specifically for ClearPath environments. A platform as a service (PaaS) offering, ClearPath Cloud: Development and Test complements your existing development facilities by **enabling you to securely augment and extend these resources to address short-term spikes in demand – without incurring an incremental capital investment.**

The solution allows you to subscribe to and access the Unisys hosted ClearPath Cloud whenever you wish to modernize existing ClearPath applications or create new ones. As such, ClearPath Cloud: Development and Test helps you avoid unscheduled capital expenditures – and ensure that existing resources remain dedicated to more business-critical uses.

For example, when a significant new project begins or a development timeline needs to be accelerated, ClearPath Cloud: Development and Test supplements your existing development environment with short-term access to additional resources as needed. These can be leveraged for such activities as application creation, modernization, and functional testing, and then scaled back as development processes wind down.

Unisys ClearPath Cloud is available with different capacities to meet a wide range of requirements, and is provisioned with the full set of development technologies for ClearPath MCP and OS 2200 environments, helping you quickly achieve productivity.

ClearPath Cloud: Development and Test has been in use by Unisys internal engineering teams for over two years, making it a proven technology capable of meeting diverse requirements. It is an economic solution that balances capital and operational expenses, while increasing agility and reducing the risk associated with major development initiatives. In addition, ClearPath Cloud: Development and Test delivers expanded infrastructure sourcing options, accelerates delivery of business functionality, and provides a new approach that enables you to address customer needs while driving a quick ROI. >>

Dev/Test is Just the Beginning

ClearPath is a strategic program for Unisys, one that receives continual investment and innovation. The new ClearPath Cloud strategy is designed to complement the overall ClearPath program, initiating a new business model that allows your organization to make intelligent investments in all areas.

In fact, over the next several months, we plan to launch additional ClearPath Cloud Solutions that will open new avenues for realizing the operational and economic advantages of cloud computing. These solutions include:

- A full, cloud-based production environment for smaller, independent applications, which is intended to enable you to offload specialized applications into the cloud and maximize the use of ClearPath resources for mission-critical applications
- Data replication and disaster recovery for cost-effective, secure preservation of mission-critical business information
- Managed, software as a service (SaaS) applications that address specific industry requirements, and complement such existing SaaS solutions as the Logistics Management System

Please visit the [Cloud Solutions](#) section of the Unisys web site to learn more.

A Look Inside the ClearPath Cloud

ClearPath Cloud: Development and Test delivers its robust capabilities via a ready-to-go environment that includes:

- A Software Developer's Kit (SDK) for the MCP and OS 2200 operating environments, which includes relevant database software and development tools
- A virtual development server with memory, storage, and networking resources sized to a wide range of development requirements
- Software enhancement releases and maintenance support services

Furthermore, this ClearPath Cloud offering provides existing MCP and OS 2200 development infrastructures with the option to adopt short license terms and choose from performances of 25, 50, or 150 MIPS.

Unisys Technology Support Services: Enhanced Maintenance, Availability, and Optimization

As a cornerstone of your data center and a hub of business activity, your ClearPath mainframe represents a significant investment in the long-term success of your organization. Consequently, it's important that you take the necessary steps to optimize this investment, so it delivers lasting value, both now and into the future.

By now, you're probably familiar with the idea of IT optimization, but may be wondering exactly how to put this concept into practice. If so, then Unisys Technology Support Services (TSS) can help.

Through a flexible suite of extended maintenance and complementary support offerings that provide global, single-source coverage for your mission-critical ClearPath environment, TSS helps you optimize your investment by reducing the risks of downtime, maximizing system performance, streamlining management, improving productivity, security, and compliance – and driving ROI.

Whether you need warranty upgrades, around-the-clock, rapid-response maintenance, a personalized go-to support advocate, remote health checks, customized consulting, or more, TSS can be customized to meet your business and financial requirements.

Premium Support Services Tailored to Your World

The TSS solutions portfolio delivers on the promise of IT optimization through three sets of offerings:

- Extended Maintenance Services
- Support Account Manager
- Enterprise Multi-Vendor Support

Extended Maintenance Services

TSS offers a host of flexible options for upgrading warranties and extending the maintenance of both Unisys and non-Unisys hardware and software, including business-hours or around-the-clock coverage with next business day, four-hour, or two-hour response plans. Regardless of which option you choose, you get access to our e-Service Portal to open and manage service requests, consultation from support analysts, and configuration assistance. Or, you can even opt for a support level that pairs around-the-clock support with four-, six-, or eight-hour hardware *repair commitments*, giving you the most complete coverage available.

Support Account Manager

Support Account Manager (SAM) provides a more robust support infrastructure for your ClearPath system via a dedicated Unisys representative acting as an extension of your internal support team. The SAM works closely with your team to proactively identify issues before they become problems, manage escalations, and facilitate a swift resolution. In addition, your SAM conducts monthly review calls and quarterly face-to-face meetings, performs remote system health checks, and even provides consulting services as needed. >>

Enterprise Multi-Vendor Support

Like most organizations, your data center is home to hardware from a variety of vendors. Usually, this means juggling a multitude of primary and third-party service providers, making the support process disjointed, complex, time consuming, and quite costly. Enterprise Multi-Vendor Support (EMVS) consolidates such an environment into a single point of contact and accountability across all vendors, giving you:

- One call
- One provider
- One consistent level of support
- One complete set of end-user support resources

By leveraging our unique technical expertise, proven partners, and commitment to fast, high-quality service, EMVS helps you streamline and simplify the support process and deliver consistency across all products, platforms, and locations. In fact, customers who have consolidated support infrastructures with Unisys EMVS have experienced an average annual support cost savings of 20% or more.

To learn more about these or any other aspects of Unisys Technology Support Services, [download a copy of the TSS brochure](#) or contact your Unisys account executive.



White Paper Documents Libra 790 Performance Improvements **MCP**

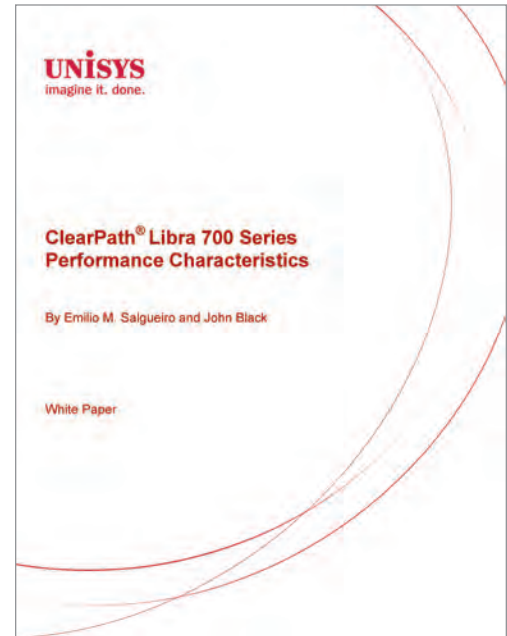
In today's demanding, fast-paced IT world, performance is king. With internal and external users unaccustomed to waiting for the services they want, the pressure is on to deliver what they need, when they need it.

Of course, high levels of performance are at the core of your ClearPath server, and Unisys remains committed to providing the enhancements you need to keep system performance in line with evolving business and customer demands.

In fact, a recent Unisys white paper titled "[ClearPath Libra 700 Series Performance Characteristics](#)" documents the ways in which the ClearPath Libra 790 server delivers improved performance over its predecessors in three core areas – memory, processors, and I/O.

The paper compares these characteristics to earlier Libra models, and cites extensive research that measures the Libra 790's performance against established industry benchmarks and Unisys own testing processes. In addition, the paper provides useful recommendations for optimizing the performance of your system.

Please visit the [eCommunity](#) to read the full paper.

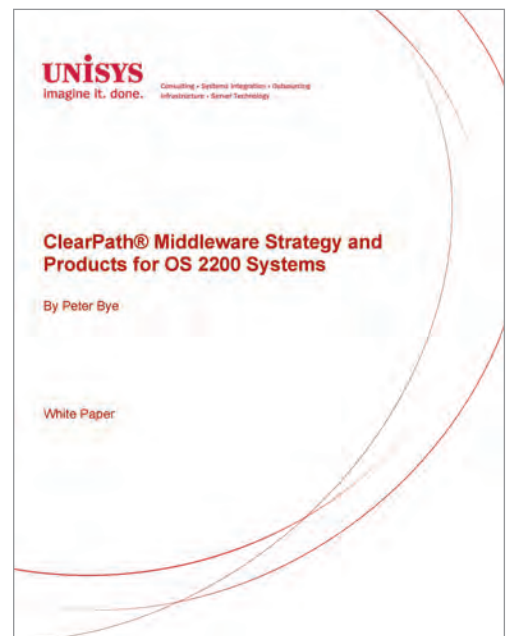
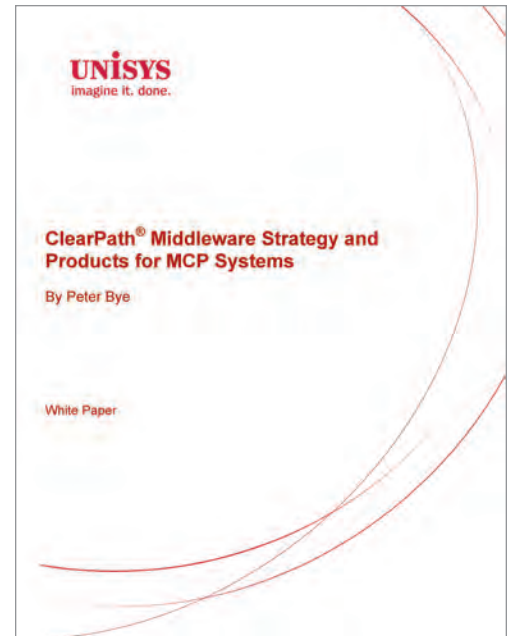


Middleware White Papers Now Include Latest MCP and OS 2200 Release Capabilities

Putting your ClearPath mainframe at the core of a service-oriented architecture (SOA) is a great way to extract maximum business value from existing investments, while delivering greater service to internal and external IT users alike. And, integrating your ClearPath environment with SOA-specific middleware promises to help you realize these goals with greater ease and efficiency.

The Middleware Strategy and Products for ClearPath MCP and ClearPath OS 2200 systems white papers explore the middleware products available for these environments, and provide an in-depth look at the key features and technical details of each product. Moreover, the papers also offer real-world examples of how middleware products are being put to use in a variety of SOA environments, and illustrate some exciting developments for future releases.

Recently updated to include the latest features and solutions in MCP Release 13.0 and OS 2200 Release 12, these papers will help you determine how to best integrate your ClearPath mainframe with other environments, applications, and data. These projects can be anything from a small implementation that allows ClearPath transactions to be accessed from a Java application, to a large initiative that uses middleware to grant your system access to a wide range of applications and data.



Tech Corner: Policy-Driven Security Admin for ClearPath Systems

By Glen Newton, PhD, CISSP, Security Architect – ClearPath OS2200 and Mike Kain, Security Architect – ClearPath MCP

Today's operations personnel work in increasingly complex IT environments with intricate administration models that make it harder and harder to stay on top of the latest policies. And as the trend toward consumerization of IT continues – with iWorkers demanding greater availability and responsiveness and the cost of downtime becoming more significant – you must effectively navigate these complexities without even the slightest error.

Given these challenges, coupled with the increasing pressure related to regulatory compliance, we are committed to enhancing ClearPath operating environments to help organizations like yours respond to the new complexities and constraints you face. We also recognize that security, in particular, has never been more critical to business operations – nor have there ever been more threats with which to contend.

ClearPath servers have an excellent track record in terms of system security – in fact, it's built into OS 2200 and MCP mainframes. However, the potential for human error remains a constant concern. And because of this, we offer tools to help you and your fellow operations and security staff do your jobs better and ensure nothing compromises the integrity of your ClearPath environment.

To this end, ClearPath servers enable policy-driven administration, an approach to security that leverages well-defined standards, and accepted best practices that both reflect and support your specific organizational and business goals. The tools available in ClearPath platforms enable you to define, automate, codify, and audit policies in ways that help you:

- Minimize, or even altogether eliminate, the opportunity for human error
- Accelerate the delivery of administrative services that establish new users using pre-defined classes/roles that grant access to specific system tools, data, and applications
- Track activities to ensure they comply with your established security policies

Now is the Time for Policy-Driven Administration

While ensuring high levels of system security has always been a top-of-mind issue, what makes now the time to take a policy-driven approach to system administration?

For one, new regulations, like the Payment Card Industry (PCI) standard, have upped the bar in terms of the scope and type of policies that need to be defined – and the repercussions that come if they are not followed. What's more, like so many IT tasks, “do it yourself” no longer cuts it – internal and external auditors demand that you document policies and prove they are being followed to the letter.

In addition, a lack of policies means that you cannot definitively prove the level of security your systems have, which leads to a high, and often unacceptable, level of risk. For example, something as simple as an individual leaving the organization can open many critical exposure points if you don't have the proper policies in place to decommission their access privileges.

Considering the number of flexible, built-in security options, user privilege attributes, and settings for your ClearPath systems, there's never been a better reason to adopt a policy-driven approach to system security.

The following sections highlight just a few of the key technologies you can employ in either the MCP or OS 2200 operating environments. >>

Policy-Driven Admin in MCP Operating Environments MCP

Performing policy-driven administrative tasks should always start with Security Center, the security administration tool for ClearPath MCP operating environments. Security Center is a Microsoft® Windows® based tool that enables security administrators to define, document, and apply a corporate security policy to a ClearPath MCP system. The MCP Security Policy Management module gives you the ability to define and institute system-wide security settings, such as security levels and logging options, as well as user account policies. It also supports the ability to standardize on a common security configuration by capturing all related information in a policy file that can be transported and applied to all MCP systems you operate.

Security Center's MCP Account Management module helps you simplify the management of user-based policies by defining templates for the different user types within your organization. With this capability, you can quickly and easily create new user codes with the knowledge that you've granted the right level of access per policy. We include 13 sample templates to help you get started.

MCP 13.0 introduced the ability to extend role-based security to the applications running on your ClearPath system. Through the concept of an application realm – a collection of roles, permissions, and users for an application – administrators can define a role with associated permissions. We expect that roles will most commonly relate to a specific job function – such as a banking application that includes privileges and roles for tellers versus branch managers. The goal of this new feature is to promote standardization and reduce manual effort.

Finally, [SafeSurvey](#), a tool from [Locum Software](#), can help you evaluate and determine whether or not your policies are being followed. SafeSurvey analyzes the system and produces easy-to-read system configuration reports. For example, it includes a system policy report that compares the current state of the system to your formal policy file, helping you assess how effective these policies are after being implemented. (Note: a trial version of SafeSurvey is included with Security Center as part of the base operating environment. It offers a subset of the full product's reporting capabilities to give you the opportunity to understand the scope of its capabilities before licensing the full solution. Locum also offers SecureAudit and RealTime Monitor, two other security tools for the ClearPath MCP environment. [Visit their web site](#) for more information about these powerful auditing tools.)

The Security Center Help file is a great technical reference for these and other security features of the MCP environment. This file is available for download from the Unisys Support web site. And, it's available via the Public Information tab on the left-hand side of the www.support.unisys.com landing page – so you don't need an official Support user id to access it. Choose Documentation, MCP Mainframes, your or any system model, and MCP Release 13.0. The Security Center Help can be downloaded from the Security section of the 13.0 release documentation. Check it out! >>

Policy-Driven Admin in OS 2200 Operating Environments

The logo consists of the text "OS" in white above "2200" in white, both contained within an orange square.

You have tools at the ready when it comes to policy-driven administration in OS 2200 environments, including the Security Administration function that's included in the IOE and SIMAN (available from [TeamQuest](#)). With these capabilities, you can streamline user management when you create a new user "like" an existing one. Doing so copies a specific set of previously defined capabilities and permissions that you can then customize, if necessary. Furthermore, by assigning users to groups in the security system, you can streamline the process of assigning file access rights – via Access Control Records (ACRs) – to users with similar roles.

RDMS 16R1 in OS 2200 Release 12.0 introduced the concept of roles for RDMS security. The role security model provides a shortcut for the potentially large number of GRANT statements that administrators would have to manually perform to establish privileges in environments with a large number of end users. Now, database administrators can define roles and associate privileges with each one. Then, roles are assigned to individual users – effectively granting them all access rights per the role. And, users can still have individual/unique privileges in addition to those defined by a role. When a user references a table or view, RDMS knows all the access rights that user has been granted. To learn more about roles, see section 3.5, “Role Security,” in the Enterprise Relational Database Server for ClearPath OS 2200 Administration Guide (7831 0760-019 or -20).

The Enhanced Security Profiles (ESP) Service is another capability that supports policy-driven security administration. Available through the Unisys Client Support Center (CSC), the ESP Service helps you create an authentication library that can be deployed to enforce site-specific security standards. With the library, you gain the ability to enforce very complex password rules for demand and TIP session control sign-ons. For example, you can establish minimum and maximum password lengths with a minimum number of alpha, upper/lower case, special and/or control characters. You can limit the use of sequential characters (1234), use of passwords related to the UserID, and reuse of previous passwords. Typically a one-time service, ESP helps you get password management where it needs to be.

And as ClearPath operations make their move into the cloud, the OS 2200 environment includes a set of fixed configurations for small, medium, and large systems armed with the Fundamental Security policy, so it's easy to quickly provision a secure cloud system.

For a nice overview of the principles of OS 2200 security, view Glen Newton's UNITE 2010 scripted presentation [How to Secure an OS 2200 Server](#), which includes slides 38-41 on the ESP Service.

Hidden Gems That Simplify Policy Administration

Aside from the specific tools and resources discussed above, both MCP and OS 2200 environments include several “hidden gems” that help you more effectively create and manage policies.

For example, both MCP and OS 2200 environments include the [Operations Sentinel](#) tool, formerly Single Point Operations, which allows you to centralize and automate the management of heterogeneous systems from a single display.

Additionally, both platforms give you the option to report events to the operator that could be considered a security violation. If reported into Operations Sentinel, these potential violations can be immediately rectified without any human intervention, logged as an alert on the visual console, or brought to the attention of an administrator via email. >>

Security: From Soup to Nuts

This article has barely scratched the surface when it comes to security on Unisys ClearPath mainframes. To learn more, check out our whitepapers:

ClearPath OS 2200	<u>ClearPath Dorado Series Security Policy and Guidelines</u>
	<u>ClearPath OS 2200 Using Cipher API to Encrypt RDMS Data</u>
	<u>ClearPath OS 2200 Security Overview of Changing Fundamental Security to Security Level 1</u>
	<u>ClearPath OS 2200 Dorado – Introduction to System LAN Security</u>
	<u>Dorado Series System LAN Security Policy Level 1 – Security Policy Overview</u>
	<u>ClearPath Specialty Engine for OS 2200 Security</u>
	<u>ClearPath OS 2200: Unsurpassed Security</u>
ClearPath MCP	<u>Java Platform Security on ClearPath OS 2200 Mainframes</u>
	<u>ClearPath MCP Security Supports the Payment Card Industry (PCI) Data Security Standard</u>
	<u>ClearPath MCP: Unsurpassed Security</u>

There are more security resources in the eCommunity under [MCP Secure Systems](#) and [OS 2200 Secure Systems](#).

Backup and Recovery Management Service Delivers Tailored Data Protection

Your ClearPath environment is no stranger to the rapid Information growth common in today's IT infrastructures – nor is it immune to the incredible pressures this growth places on the backup, recovery, and archiving processes meant to keep your mission-critical resources safe and sound.

And though you have certainly taken the necessary steps to protect your ClearPath infrastructure in the past, when was the last time you evaluated how closely your backup – and more importantly, your recovery – processes align with your business needs? If you're concerned that yesterday's strategies won't live up to today's requirements, then we might just have the answer you're looking for – the Unisys Backup and Recovery Management (BRM) Service.



The BRM Service takes a comprehensive, strategic approach to protecting your ClearPath environment that starts with the act of recovery itself, and focuses on enabling faster, easier, and more reliable processes. In this way, the BRM Service complements your ClearPath system's existing business continuity plan because it focuses on mapping and classifying your recovery point objectives (RPOs) and recovery time objectives (RTOs) and leveraging the correct set of technologies to meet these requirements.

The BRM Service leverages a six-step methodology:

1. Understand the business requirements and service level agreements (SLAs) of each application
2. Identify recovery technologies capable of meeting these SLAs
3. Determine the best resources from the list of suitable technologies
4. Design a solution based on the recommended technologies
5. Demonstrate that the solution meets all pertinent business and technical requirements
6. Provide a business case that justifies the investment

Unique Approach, Exceptional Results

The BRM Service methodology is based on a collaborative approach that leverages Unisys unparalleled expertise to conceive, design, and deploy a solution tailored to the specific needs of both ClearPath and other systems.

It all starts with a Discovery Questionnaire designed to gather information about your organization's business goals and the unique recovery needs of your ClearPath infrastructure. Our consultants then meet with key stakeholders from your organization to review the Discovery Questionnaire and collect in-depth data about your recovery environment and its policies and SLAs. >>

After analyzing this data, our consultants prepare, deliver, and review a formal Findings Report, which outlines the reference architectures – proven Unisys implementation models – that most closely align with your business requirements and operational practices. The Findings Report also reviews the pros and cons of each available option and provides insight and recommendations for such details as:

- Suitable technologies, their differences, and complements
- An inventory of disk and tape resources currently used for data protection
- Snapshots, clones, or continuous data protection (CDP) implementations
- Data deduplication fit, and sources and targets
- Replication choices
- Analyses of cost versus RPOs and RTOs

Following the review of the Findings Report, we'll offer our final recommendation and provide the business case proving that this is the best recovery strategy for your organization.

To learn more about the BRM Service, please contact your Unisys account executive.

Proving the BRM Service Business Case

The Unisys Value Engineering group has developed an engagement designed to help you quickly prove the business case for leveraging the BRM Service in your organization. To do so, this engagement provides the following deliverables:

- **BRM Value Assessment** – a comprehensive report detailing the results of the assessment, including the financial, operational, and strategic impact of optimizing backup and recovery management.
- **Financial Analysis Model** – a detailed, interactive financial model that identifies the cost impact of the BRM Service and contains the key metrics collected during the assessment.
- **Executive Presentation** – a high-level presentation summarizing the findings of the BRM Value Assessment, with supporting financial analyses.



A Client Solutions Program provided by Key Equipment Finance

Think Outside the Box

Leasing solutions can be tailored to solve unique business challenges. Here's just one example...

Situation:

Having acquired a new business during the previous year, a major European financial institution wanted to consolidate IT resources onto a common storage platform, which meant adding more attached storage to its ClearPath environment. However, the organization was also challenged to reduce TCO and wanted to avoid a large upfront capital investment.

Solution:

Unisys Leasing Worldwide created a 48-month, usage-based leasing solution covering storage, hardware, software, and other associated costs whereby the client's payments reflected actual usage on a gigabytes-per-month (GBM) basis. As a part of the lease, the firm's storage environment was upgraded to EMC® Symmetrix® VMAX™ technology.

Result:

The financial institution gained the needed storage capacity, avoided an upfront capital outlay, and received immediate and significant TCO benefits.

To create your own leasing success story, contact your Unisys sales representative or [Unisys Leasing Worldwide](#). For more information about Unisys Leasing Worldwide, visit the [eCommunity](#).

Calendar

There are many learning opportunities available to you. Please be sure to check the Webcasts & Events section of the [eCommunity](#) for the latest information.

What	Where	When
ClearPath Road Show	Blue Bell, PA Register online	September 23, 2010
OS 2200 Best Practices Workshops: Technical one-day event that features demonstrations to show how new ClearPath software features can be implemented quickly to improve the performance of your operations.	Brussels, Belgium Register online	October 1, 2010
	Sweden Register online	October 21, 2010
MCP Best Practices Workshops: Technical one-day event that features demonstrations to show how new ClearPath software features can be implemented quickly to improve the performance of your operations.	Milton Keynes Buckinghamshire, UK Register online	September 29, 2010
	Amsterdam, Netherlands Register online	October 12, 2010
	Brussels, Belgium Register online	October 13, 2010
UNITE Annual Technology Conference	Hyatt Regency Orange County , Anaheim, CA	May 22-25, 2011
ClearPath webcasts on a range of topics, including: <ul style="list-style-type: none"> • ClearPath MCP Release • ClearPath OS 2200 Release 12.1 and ClearPath ePortal for OS 2200 • ClearPath – Open Technologies for Contemporary Applications 	Online via the eCommunity	Check the Webcasts & Events Archive area in the eCommunity.

Specifications are subject to change without notice.

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